

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY102221\  
 Data File : VY006452.D  
 Acq On : 22 Oct 2021 20:19  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050EC

Quant Time: Oct 23 07:25:33 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y102221S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Oct 23 06:59:04 2021  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :Vimala Arumugam 10/25/2021  
 Supervised By :Mahesh Dadoda 10/25/2021

| Compound                     | R.T.           | QIon | Response            | Conc    | Units | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|-------|----------|
| -----                        |                |      |                     |         |       |          |
| Internal Standards           |                |      |                     |         |       |          |
| 1) Pentafluorobenzene        | 7.795          | 168  | 127718              | 50.000  | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.697          | 114  | 204070              | 50.000  | ug/l  | 0.00     |
| 63) Chlorobenzene-d5         | 11.489         | 117  | 194422              | 50.000  | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428         | 152  | 97539               | 50.000  | ug/l  | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |       |          |
| 33) 1,2-Dichloroethane-d4    | 8.149          | 65   | 85530               | 54.420  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 108.840% |         |       |          |
| 35) Dibromofluoromethane     | 7.722          | 113  | 59546               | 52.351  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 104.700% |         |       |          |
| 50) Toluene-d8               | 10.185         | 98   | 251918              | 52.246  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 104.500% |         |       |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 85107               | 52.398  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 104.800% |         |       |          |
| Target Compounds             |                |      |                     |         |       |          |
|                              |                |      |                     |         |       | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.906          | 85   | 61482               | 52.077  | ug/l  | 98       |
| 3) Chloromethane             | 2.113          | 50   | 92920               | 58.310  | ug/l  | 100      |
| 4) Vinyl Chloride            | 2.253          | 62   | 98446               | 55.316  | ug/l  | 98       |
| 5) Bromomethane              | 2.656          | 94   | 71800               | 60.556  | ug/l  | 98       |
| 6) Chloroethane              | 2.802          | 64   | 60878               | 57.927  | ug/l  | 94       |
| 7) Trichlorofluoromethane    | 3.131          | 101  | 123785              | 54.776  | ug/l  | 98       |
| 8) Diethyl Ether             | 3.534          | 74   | 46774               | 63.200  | ug/l  | 96       |
| 9) 1,1,2-Trichlorotrifluo... | 3.899          | 101  | 66320               | 57.644  | ug/l  | 97       |
| 10) Methyl Iodide            | 4.101          | 142  | 56083               | 45.129  | ug/l  | 99       |
| 11) Tert butyl alcohol       | 4.966          | 59   | 39378               | 275.797 | ug/l  | 100      |
| 12) 1,1-Dichloroethene       | 3.881          | 96   | 66799               | 57.932  | ug/l  | 92       |
| 13) Acrolein                 | 3.741          | 56   | 25706               | 260.429 | ug/l  | 98       |
| 14) Allyl chloride           | 4.485          | 41   | 153066              | 64.497  | ug/l  | 97       |
| 15) Acrylonitrile            | 5.174          | 53   | 131723              | 316.053 | ug/l  | 99       |
| 16) Acetone                  | 3.954          | 43   | 102891              | 227.358 | ug/l  | 100      |
| 17) Carbon Disulfide         | 4.198          | 76   | 235329              | 62.224  | ug/l  | 100      |
| 18) Methyl Acetate           | 4.485          | 43   | 97171               | 66.216  | ug/l  | 99       |
| 19) Methyl tert-butyl Ether  | 5.228          | 73   | 232433              | 62.875  | ug/l  | 99       |
| 20) Methylene Chloride       | 4.728          | 84   | 91552               | 66.498  | ug/l  | 96       |
| 21) trans-1,2-Dichloroethene | 5.228          | 96   | 78017               | 59.664  | ug/l  | 95       |
| 22) Diisopropyl ether        | 6.125          | 45   | 312772              | 66.127  | ug/l  | 96       |
| 23) Vinyl Acetate            | 6.064          | 43   | 924799              | 321.471 | ug/l  | 99       |
| 24) 1,1-Dichloroethane       | 6.021          | 63   | 155012              | 62.677  | ug/l  | 99       |
| 25) 2-Butanone               | 6.990          | 43   | 152608              | 257.399 | ug/l  | 98       |
| 26) 2,2-Dichloropropane      | 6.990          | 77   | 114678              | 48.750  | ug/l  | 99       |
| 27) cis-1,2-Dichloroethene   | 6.990          | 96   | 80446               | 53.890  | ug/l  | 99       |
| 28) Bromochloromethane       | 7.338          | 49   | 53327               | 53.144  | ug/l  | 97       |
| 29) Tetrahydrofuran          | 7.350          | 42   | 103881              | 285.590 | ug/l  | 97       |
| 30) Chloroform               | 7.515          | 83   | 136437              | 53.419  | ug/l  | 98       |
| 31) Cyclohexane              | 7.789          | 56   | 127738              | 50.205  | ug/l  | 98       |
| 32) 1,1,1-Trichloroethane    | 7.710          | 97   | 123250              | 52.261  | ug/l  | 100      |
| 36) 1,1-Dichloropropene      | 7.923          | 75   | 102061              | 50.616  | ug/l  | 98       |
| 37) Ethyl Acetate            | 7.082          | 43   | 69393               | 54.380  | ug/l  | 100      |
| 38) Carbon Tetrachloride     | 7.905          | 117  | 109652              | 49.296  | ug/l  | 98       |
| 39) Methylcyclohexane        | 9.185          | 83   | 122273              | 49.814  | ug/l  | 98       |
| 40) Benzene                  | 8.167          | 78   | 302191              | 52.546  | ug/l  | 99       |

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| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.326  | 41   | 37928m   | 52.380   | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.240  | 62   | 107254   | 52.225   | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.277  | 43   | 135034   | 54.547   | ug/l   | 99       |
| 44) Trichloroethene           | 8.941  | 130  | 77217    | 52.062   | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.222  | 63   | 75919    | 53.296   | ug/l   | 100      |
| 46) Dibromomethane            | 9.307  | 93   | 41643    | 53.257   | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.502  | 83   | 106524   | 52.369   | ug/l   | 96       |
| 48) Methyl methacrylate       | 9.295  | 41   | 62677    | 54.628   | ug/l   | 98       |
| 49) 1,4-Dioxane               | 9.301  | 88   | 10676    | 1005.694 | ug/l   | 94       |
| 51) 4-Methyl-2-Pentanone      | 10.075 | 43   | 359786   | 277.250  | ug/l   | 99       |
| 52) Toluene                   | 10.246 | 92   | 186900   | 51.798   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 116871   | 53.334   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 124786   | 52.561   | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 10.648 | 97   | 56845    | 52.580   | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.514 | 69   | 91861    | 54.999   | ug/l   | 99       |
| 57) 1,3-Dichloropropane       | 10.794 | 76   | 104132   | 52.998   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.789  | 63   | 194376   | 255.110  | ug/l   | 100      |
| 59) 2-Hexanone                | 10.831 | 43   | 252819   | 269.184  | ug/l   | 100      |
| 60) Dibromochloromethane      | 10.990 | 129  | 70521    | 52.882   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.093 | 107  | 53843    | 52.898   | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.721 | 164  | 88730    | 52.193   | ug/l   | 99       |
| 65) Chlorobenzene             | 11.520 | 112  | 192845   | 50.966   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 73839    | 51.838   | ug/l   | 100      |
| 67) Ethyl Benzene             | 11.593 | 91   | 369378   | 51.268   | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.703 | 106  | 278023   | 102.574  | ug/l   | 99       |
| 69) o-Xylene                  | 12.032 | 106  | 133134   | 51.476   | ug/l   | 100      |
| 70) Styrene                   | 12.044 | 104  | 229815   | 51.970   | ug/l   | 99       |
| 71) Bromoform                 | 12.209 | 173  | 46178    | 51.286   | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.331 | 105  | 349588   | 51.237   | ug/l   | 99       |
| 74) N-amyl acetate            | 12.142 | 43   | 124271   | 54.905   | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 61326    | 51.917   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.636 | 75   | 57312m   | 57.020   | ug/l   |          |
| 77) Bromobenzene              | 12.611 | 156  | 82746    | 51.475   | ug/l   | 98       |
| 78) n-propylbenzene           | 12.672 | 91   | 429159   | 50.896   | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.758 | 91   | 240665   | 51.555   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 294433   | 51.536   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 25150    | 51.369   | ug/l   | 97       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 255479   | 52.523   | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.075 | 119  | 247880   | 50.490   | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105  | 296608   | 51.923   | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.251 | 105  | 373053   | 50.606   | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 315041   | 50.094   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 163649   | 50.724   | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.446 | 146  | 163067   | 51.405   | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.696 | 91   | 299435   | 50.615   | ug/l   | 99       |
| 90) Hexachloroethane          | 13.965 | 117  | 58917    | 51.872   | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 146121   | 51.636   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 13701    | 54.636   | ug/l   | 98       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 95648    | 51.200   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 57222    | 47.792   | ug/l   | 99       |
| 95) Naphthalene               | 15.239 | 128  | 198511   | 54.288   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.422 | 180  | 85639    | 52.348   | ug/l   | 99       |

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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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